

ABSTRACT OF THE DISCLOSURE

Various embodiments of the invention present miniature medical devices that may be formed totally or in part using electrochemical fabrication techniques. Sample medical devices include micro-tweezers or forceps, internally expandable stents, bifurcated or side
5 branch stents, drug eluting stents, micro-valves and pumps, rotary ablation devices, electrical ablation devices (e.g. RF devices), micro-staplers, ultrasound catheters, and fluid filters. In some embodiments devices may be made out of a metal material while in other
10 embodiments they may be made from a material (e.g. a polymer) that is molded from an electrochemically fabricated mold. Structural materials may include gold, platinum, silver, stainless steel, titanium or pyrolytic carbon-coated materials such as nickel, copper, and the like.